

Appl. No. 10/662,073
Amdt. dated October 2, 2007
Reply to Office Action of May 3, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An absorbent composite comprising superabsorbent material;
wherein the superabsorbent material has an Absorption Time of about $5+10 a^2$ minutes or greater,
wherein a is the mean particle size of the superabsorbent material in millimeters, and a
liquidan equilibrium absorption capacity of about 15 g/g or greater as measured by the
FAUZL test; and
wherein the superabsorbent material has been neutralized from 30 mole % to 65 mole % with a
monovalent metal hydroxide, and further from 5 mole % to 40 mole % with a divalent metal
hydroxide; and
~~wherein the absorbent composite exhibits a Drop Penetration Value of about 2 seconds or less as~~
~~measured by the Saline Drop Penetration Test.~~
2. (currently amended) The absorbent composite of Claim 1, wherein the superabsorbent material
has a liquidan equilibrium absorbent capacity of about 25 g/g or greater as measured by the FAUZL
test.
3. (original) The absorbent composite of Claim 1, wherein the superabsorbent material has an
Absorption Time of about $10+10 a^2$ minutes or greater.
4. (original) The absorbent composite of Claim 1, wherein the superabsorbent material has a Gel
Bed Permeability of about $20 \times 10^{-9} \text{ cm}^2$ or greater.

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5. (original) The absorbent composite of Claim 1, wherein the superabsorbent material is substantially homogeneously distributed within the absorbent composite.
6. (original) The absorbent composite of Claim 1, wherein the superabsorbent material is zoned within a target area of the absorbent composite.
7. (original) The absorbent composite of Claim 1, wherein the absorbent composite comprises a plurality of layers and the superabsorbent material is located in a layer of the absorbent composite.
8. (original) The absorbent composite of Claim 7, wherein the superabsorbent material is zoned within a target area of the layer of the absorbent composite.
9. (currently amended) The absorbent composite of Claim 1, wherein the superabsorbent material is incorporated primarily away from a target area zoned along the perimeter of the absorbent composite.
10. (canceled)
11. (canceled)

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12. (currently amended) A disposable product comprising an absorbent composite;
wherein the absorbent composite comprises a superabsorbent material having an Absorption Time of about $5+10 a^2$ minutes or greater, wherein a is the mean particle size of the superabsorbent material in millimeters, and an equilibrium absorption a-liquid capacity of about 15 g/g or greater as measured by the FAUZL test; and
wherein the superabsorbent material has been neutralized from about 30 mole % to about 65 mole % with a monovalent metal hydroxide, and further from about 5 mole % to about 40 mole % with a divalent metal hydroxide; and
~~wherein the absorbent composite exhibits a Drop Penetration Value of about 2 seconds or less as measured by the Saline Drop Penetration Test.~~
13. (currently amended) The disposable product of Claim 12, wherein the superabsorbent material has an equilibrium absorption a-liquid capacity of about 25 g/g or greater.
14. (original) The disposable product of Claim 12, wherein the superabsorbent material has an Absorption Time of about $10+10 a^2$ minutes or greater.
15. (original) The disposable product of Claim 12, wherein the superabsorbent material has a Gel Bed Permeability of about $20 \times 10^{-9} \text{ cm}^2$ or greater.
16. (original) The disposable product of Claim 12, wherein the superabsorbent material is substantially homogeneously distributed within the absorbent composite.
17. (original) The disposable product of Claim 12, wherein the superabsorbent material is zoned within a target area of the absorbent composite.

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18. (original) The disposable product of Claim 12, wherein the absorbent composite comprises a plurality of layers and the superabsorbent material is located in a layer of the absorbent composite.

19. (original) The disposable product of Claim 18, wherein the superabsorbent material is zoned within a target area of the layer of the absorbent composite.

20. (currently amended) The disposable product of Claim 12, wherein the superabsorbent material is incorporated primarily away from a target area zoned along the perimeter of the absorbent composite.

21. (canceled)

22. (original) The disposable product of Claim 12, wherein the disposable product is selected from a diaper, an adult incontinence product, a bed pad, a sanitary napkin, a tampon, a tissue, a wipe, a tissue, a bib, a wound dressing, or food packaging.

23. (currently amended) An absorbent disposable garment comprising:

a body-side liner;

an outer cover superposed in facing relation with the body-side liner; and,

an absorbent composite located between the body-side liner and the outer cover,

wherein the absorbent composite comprises superabsorbent material having an Absorption Time of about $5+10a^2$ minutes or greater, wherein a is the mean particle size of the superabsorbent material in millimeters, and an equilibrium absorption a liquid capacity of about 15 g/g or greater as measured by the FAUZL test; and

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wherein the superabsorbent material has been neutralized from about 30 mole % to about 65 mole % with a monovalent metal hydroxide, and further from about 5 mole % to about 40 mole % with a divalent metal hydroxide; ~~and~~
~~wherein the absorbent composite exhibits a Drop Penetration Value of about 2 seconds or less as measured by the Saline Drop Penetration Test.~~

24. (previously presented) The absorbent composite of claim 1 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.

25. (previously presented) The disposable product of claim 12 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.

26. (previously presented) The absorbent disposable garment of claim 23 wherein the monovalent metal hydroxide is sodium hydroxide and the divalent metal hydroxide is selected from the group consisting of calcium hydroxide and magnesium hydroxide.